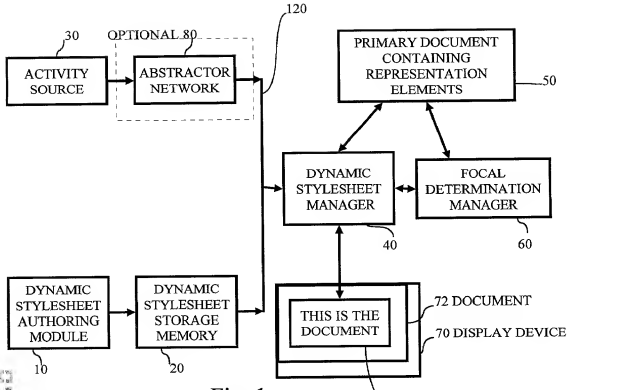
120
30
OPTIONAL 80
ACTIVITY SOURCE
ABSTRACTOR NETWORK
PRIMARY DOCUMENT CONTAINING REPRESENTATION ELEMENTS
50
DYNAMIC STYLESHEET MANAGER
FOCAL DETERMINATION MANAGER
40
60
DYNAMIC STYLESHEET AUTHORING MODULE
DYNAMIC STYLESHEET STORAGE MEMORY
THIS IS THE DOCUMENT
72 DOCUMENT
70 DISPLAY DEVICE
10
20
74 MEDIATED DISPLAY ARTIFACT

Fig. 1

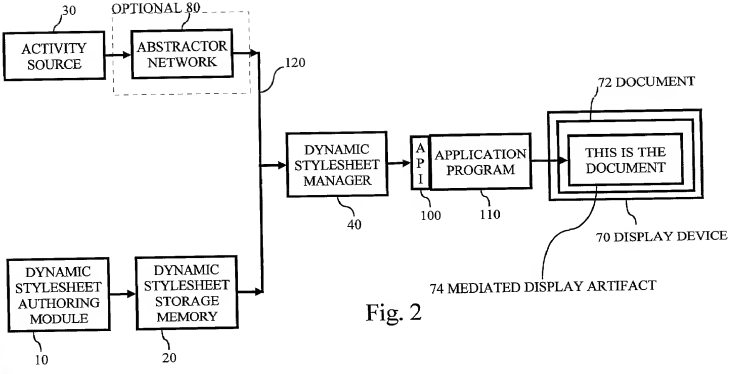


Fig. 2

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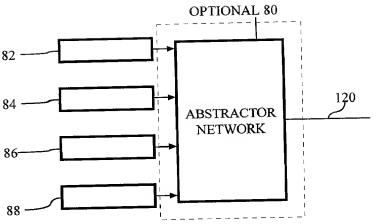
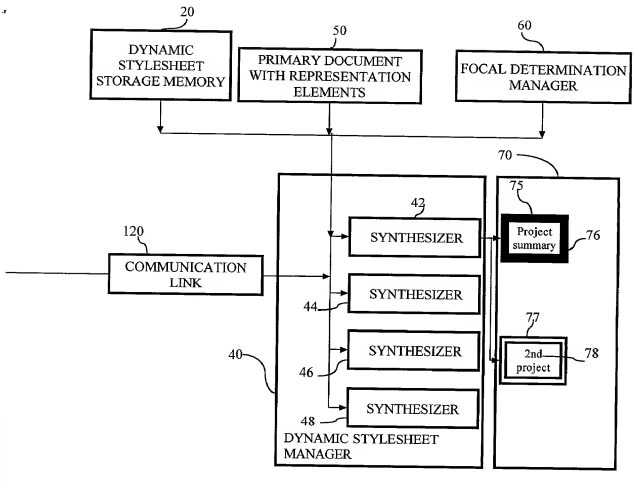



Fig. 3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DYNAMIC STYLESHEET STORAGE MEMORY
50
PRIMARY DOCUMENT WITH REPRESENTATION ELEMENTS
60
FOCAL DETERMINATION MANAGER
70
75
42
SYNTHESIZER
Project summary
76
120
COMMUNICATION LINK
SYNTHESIZER
44
77
SYNTHESIZER
2nd project
78
40
46
SYNTHESIZER
48
DYNAMIC STYLESHEET MANAGER

Fig. 4

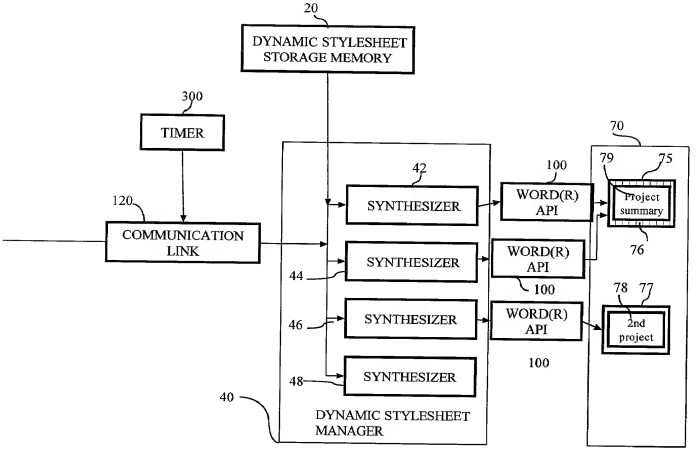
20
DYNAMIC STYLESHEET STORAGE MEMORY
300
TIMER
120
COMMUNICATION LINK
42
SYNTHESIZER
44
SYNTHESIZER
46
SYNTHESIZER
48
SYNTHESIZER
40
DYNAMIC STYLESHEET MANAGER
100
WORD(R) API
WORD(R) API
100
WORD(R) API
100
70
79
75
Project summary
76
78
77
2nd project

Fig. 5

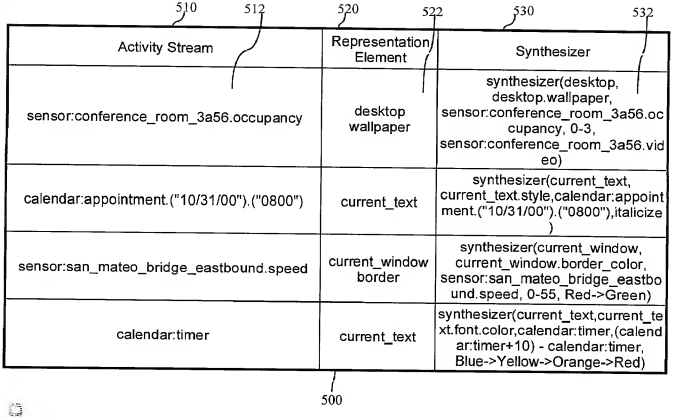
510
512
520
522
530
532
Activity Stream
Representation/ Element
Synthesizer
sensor:conference_room_3a56.occupancy
desktop wallpaper
synthesizer(desktop, desktop.wallpaper, sensor:conference_room_3a56.occupancy, 0-3, sensor:conference_room_3a56.video)
calendar:appointment.("10/31/00").("0800")
current_text
synthesizer(current_text, current_text.style,calendar:appointment.("10/31/00").("0800"),italicize)
sensor:san_mateo_bridge_eastbound.speed
current_window border
synthesizer(current_window, current_window.border_color, sensor:san_mateo_bridge_eastbound.speed, 0-55, Red->Green)
calendar:timer
current_text
synthesizer(current_text,current_text.font.color,calendar:timer,(calendar:timer+10) - calendar:timer, Blue->Yellow->Orange->Red)
500

Fig. 6

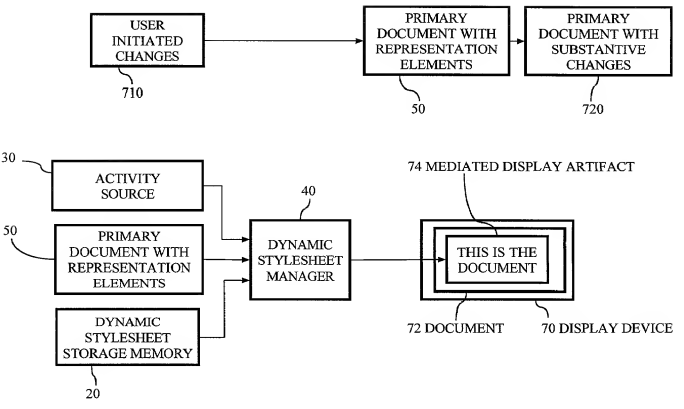
USER INITIATED CHANGES
710
PRIMARY DOCUMENT WITH REPRESENTATION ELEMENTS
50
PRIMARY DOCUMENT WITH SUBSTANTIVE CHANGES
720
30
ACTIVITY SOURCE
50
PRIMARY DOCUMENT WITH REPRESENTATION ELEMENTS
DYNAMIC STYLESHEET STORAGE MEMORY
20
40
DYNAMIC STYLESHEET MANAGER
74 MEDIATED DISPLAY ARTIFACT
THIS IS THE DOCUMENT
72 DOCUMENT
70 DISPLAY DEVICE

Fig. 7

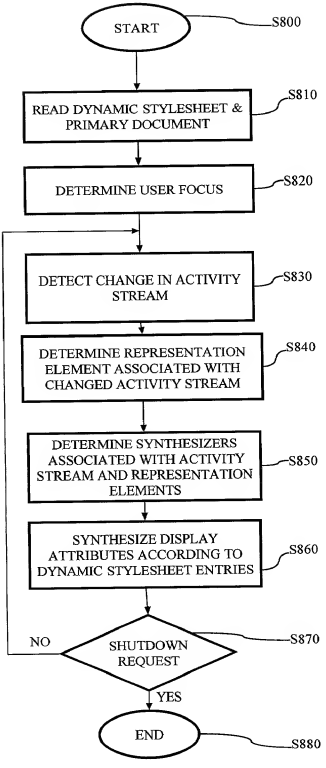
START
S800
READ DYNAMIC STYLESHEET & PRIMARY DOCUMENT
S810
DETERMINE USER FOCUS
S820
DETECT CHANGE IN ACTIVITY STREAM
S830
DETERMINE REPRESENTATION ELEMENT ASSOCIATED WITH CHANGED ACTIVITY STREAM
S840
DETERMINE SYNTHESIZERS ASSOCIATED WITH ACTIVITY STREAM AND REPRESENTATION ELEMENTS
S850
SYNTHESIZE DISPLAY ATTRIBUTES ACCORDING TO DYNAMIC STYLESHEET ENTRIES
S860
NO
SHUTDOWN REQUEST
S870
YES
END
S880

Fig. 8

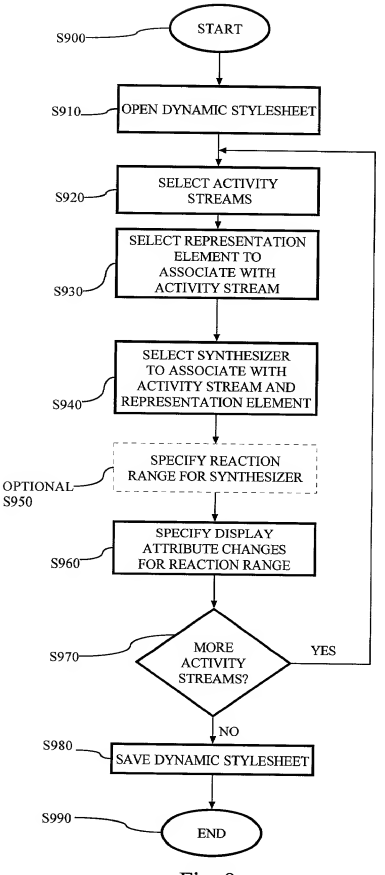
START
S900
OPEN DYNAMIC STYLESHEET
S910
SELECT ACTIVITY STREAMS
S920
SELECT REPRESENTATION ELEMENT TO ASSOCIATE WITH ACTIVITY STREAM
S930
SELECT SYNTHESIZER TO ASSOCIATE WITH ACTIVITY STREAM AND REPRESENTATION ELEMENT
S940
SPECIFY REACTION RANGE FOR SYNTHESIZER
OPTIONAL
S950
SPECIFY DISPLAY ATTRIBUTE CHANGES FOR REACTION RANGE
S960
MORE ACTIVITY STREAMS?
S970
YES
NO
SAVE DYNAMIC STYLESHEET
S980
END
S990

Fig. 9